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*Adolph
Kiefer*

**SWIMMING
POOLS
and
EQUIPMENT**



ADOLPH KIEFER & COMPANY
GLENVIEW, ILLINOIS (Chicago Suburb)



ADOLPH KIEFER EQUIPMENT

Founded in 1946, Adolph Kiefer and Company was organized to provide a complete service in all phases of the then infant swimming pool industry.

Design and manufacture have been based on the specific requirements needed for every type of swimming pool installation, whether for private or public use.

PUBLIC POOLS

It is necessary that the design and layout of any public or municipal installation conform to the sanitary rules and regulations set up by governing state or other health departments.

PRIVATE POOLS

Although the requirements for the private pool are less stringent, particular attention should be paid regarding local zoning ordinances which are becoming more prevalent as the number of new pools are increasing at such a rapid rate. Correct initial planning will avoid any possible future problems and will result in greater economy, both in construction and maintenance.

POOL DESIGN FACTORS

After familiarization with state and local codes, the size and shape of the pool is then determined, taking into consideration limitations governed by topographical and other features. Particular care should be given in placing the filter room, especially for a private pool, so that the motor sounds are not objectionable and also to allow ease of accessibility.

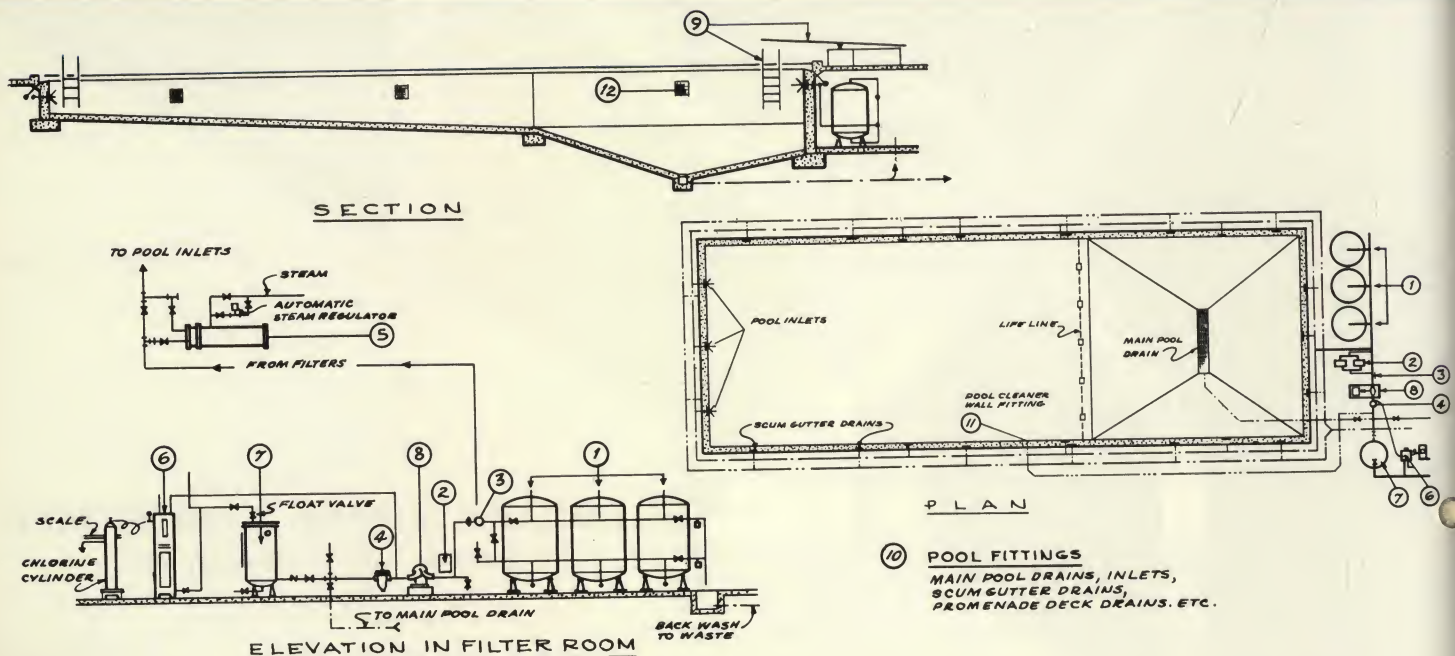
SERVICES OF ADOLPH KIEFER & COMPANY

DESIGN AND LAYOUT ASSISTANCE



Our engineering department prepares complete layouts and plans of swimming pools and filtration systems and assists architects in formulating complete installations—municipal, motel, private club and residential. Over-emphasis cannot be made in respect to proper planning and this consideration we try to convey to all concerned from the architect, contractor, to the ultimate owner and operator. Our service extends to supplying complete shop drawings and installation data on all deck equipment, both standard and specially built, as well as for details of the pool, filtration equipment and housings.

STEP BY STEP EXAMPLE



WATER CONDITIONING EQUIPMENT

Filters. We furnish complete filtration systems using either sand and gravel, diatomaceous earth, both pressure types and those using automatic skimmers and also filter skimmers, using diatomaceous earth as a filter media.

Chlorinators. Available are three units using liquid chlorine for greatest economy for large pools, solution feeders and dry feeders for the medium sized and smaller pools.

Chemical Feeder. Provided where necessary for equal distribution of chemicals for perfect residual balance.

Pool Heater. Now recognized as a "must" — greatly extends the season that a pool can be used and increases comfort all-around.

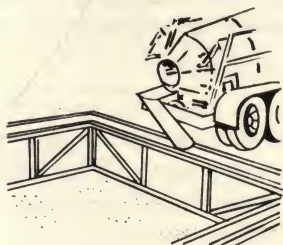
Pumps and Motors. These as specified and used with our equipment are of the best quality and specifically designed to suit the requirements of the particular job.

Deck Equipment. The most comprehensive, complete, and properly engineered line of deck equipment in the United States. Diving board stands, life guard chairs and pool ladders available in a variety of materials ranging from galvanized iron, chrome plated brass to several grades of stainless steel. Diving board construction is of Douglas Fir, Fiberglass or aluminum.

Pool Fittings. A complete line of fittings provided to suit any and all requirements. General composition is of heavy brass, chrome plated.

Miscellaneous Equipment. Dedicated to supplying "Everything But The Water," we manufacture and make available a great variety of articles directly related to swimming pools and water sports. Ask for our catalogs.

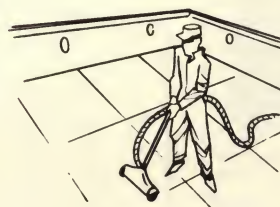
CONSTRUCTION



Adolph Kiefer & Company offers a pool construction supervision service by a highly trained and experienced staff of engineers and pool maintenance personnel. Our technical people are carefully selected and are specially trained in swimming pool and bathhouse construction

techniques. Our staff is especially capable at it represents many man-years of experience in this highly specialized field. Our men are in the field constantly keeping abreast, and in most cases ahead, of the latest pool construction trends. Full information about this service is available for the asking.













POOL SERVICE AND MAINTENANCE



By conducting an actively operating pool service and retaining a year-around maintenance staff, we have had the opportunity to study and experience all of those occurrences and problems attendant to swimming pool construction and care.

This in effect is a "field laboratory" allowing us to continuously inaugurate new systems, products and to keep ahead of the many developments in this rapidly growing industry.

EQUIPMENT LIST

EQUIPMENT LIST			page				page
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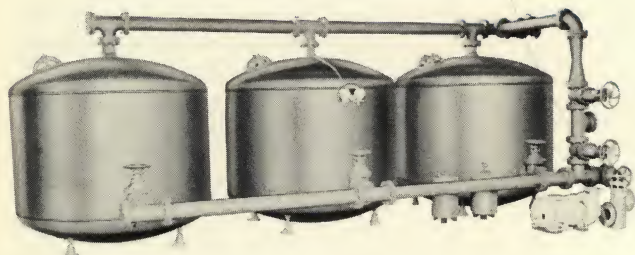
ADOLPH KIEFER WATER CONDITIONING EQUIPMENT

1

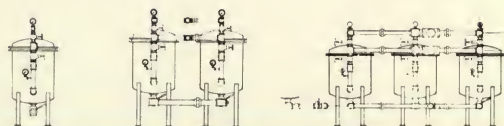
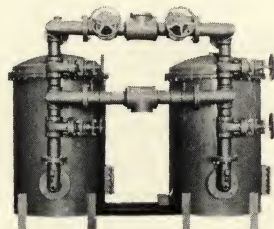


FILTER SYSTEMS

PRESSURE SAND AND GRAVEL TYPE



DIATOMACEOUS EARTH TYPES



PRESSURE SAND AND GRAVEL TYPE

Supplied in single and multiple units, both vertical and horizontal. The sand and gravel filters are the simplest of all types of filters available, easy to operate, and are the most economical. While specifically designed to suit individual applications in multiple versions, we maintain large stocks of residential types in sizes from 24 to 42 in. dia. to take care of the immediate needs of volume purchasers. In all cases, however, we can offer prompt delivery service on all types. For further details on sizes, capacities and range data, please ask for our filter bulletin.

DIATOMACEOUS EARTH TYPES

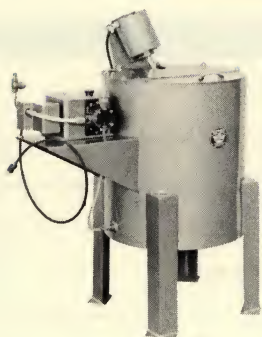
In the pressure versions we have designs available featuring compact tanks incorporating relatively large filter areas. This reduces floor space requirements by a good margin. Combining similar sizes allows increased capacities. Face piping is integral. Backwashing is accomplished quickly and efficiently with minimum of wash water.

Another type of diatomaceous earth filter is the filter-skimmer, combining automatic surface skimming and efficient filtration in one unit. This unit is designed with a connection for attaching a pool vacuum cleaner, water going through the system with no waste. Bulletin on request.

1



SLURRY TANK & BODY FEEDER



Available in four sizes to deliver up to 70 lbs. per 24 hour period. Rugged construction eliminates maintenance problems. Adaptable to any type or size diatomite filter system.

	Capacity — gal.	Feed Rate — gph
T1	20	1.75-3.5
T2	50	1.75-3.5
T3	100	1.75-3.5
T4	150	1.75-3.5

2



POSITIVE FEED CHEMICAL FEEDERS



Designed to feed up to 60 gallons of chemical solution per day. Effective for pressures up to 125 psi. Bulletin on request.

Model S-SIMPLEX With suction and discharge tubing, foot valve, strainer and line injection valve.

Model S-DUPLEX With two heads for feeding two chemicals.

2



DRY TYPE CHEMICAL FEEDERS



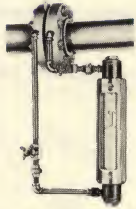
Used to create Alum floc on top of filter media. Feeder should be sized for approximately $\frac{1}{3}$ lb. of Alum per square foot of filter area. Also used for the feeding of soda ash to control alkalinity of water. Made of 125 lb. A.W.W.A. fine grain cast iron with O-ring seal and a lid which can be easily removed.

No.	capacity — lb.
1400	5
1402	10
1406	25
1410	50
1414	75
1418	130
1422	170

3



**FLOW
INDICATOR**



1454-A

**FLOW
INDICATOR**

Used to check filter, backwash and flow rates. Available in dial type and two types of Pyro-Flo gauges, "vertical" (No. 1454) and "swivel" (No. 1456). Order

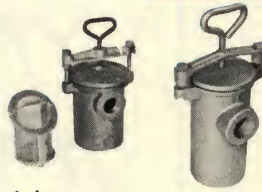
dial type with orifice plates and flanges. Specify rate of flow and pipe size for all types when ordering.

No.	
1450	Dial Type
1454-A	F.&P. Ora-Flo Rater "Vertical" installation. 2½ in. through 6 in. IPS
1456	Pyro-Flo Gauge "Swivel" installation. 1½ in. and 2 in. IPS

4



**SUCTION
STRAINERS**



commercial

Designed with flared pipe apertures and top and bottom openings to distribute water evenly over entire basket area. These strainers have larger basket area per pipe size than any other strainer. All strainers have positive O-ring seal and quick release lid.

residential

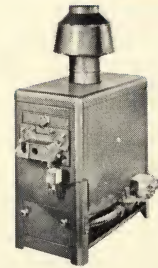
The exclusive O-ring feature provides a positive seal by merely tightening handle with hand pressure. All strainers are equipped with a rubber coated basket. This basket is so designed that the area of the openings is many times that of the pipe size to insure adequate flow in the event the basket becomes partially clogged. All strainers are constructed of 125 lb. A.W.W.A. fine grain cast iron with bronze yoke.

No.	
1302	1½" Standard — 4" x 10"
1306	2" Standard — 4" x 10"
1310	1½" DeLux — 6½" x 10"
1314	2" DeLux — 6½" x 10"
1318	2½" DeLux — 6½" x 10"
1340	3" Commercial Screwed
1344	4" Commercial Screwed
1348	4" Commercial Flanged
1352	5" Commercial Flanged
1356	6" Commercial Flanged

5



**POOL
HEATER**



Heavy-Duty Automatic Gas Pool Heaters.

LAARS Models AFJ are completely automatic, for natural and mfd. gas, available in 35 sizes from 103,000 to 7,125,000 BTU. "ULTRA-SENSITIVE" THERMOSTAT cuts gas bills, controls pool temperature to 0.1 degree. HIGH LIMIT SWITCH protects against overheating. "PRESSURE-FLOW" SWITCH protects against any abnormal condition. ELECTRIC GENERATOR, built-in no wiring expense. ELECTRIC MAIN GAS VALVE is safe and reliable. AUTOMATIC SAFETY PILOT prevents gas flow unless pilot is lighted. GAS PRESSURE REGULATOR maintains constant gas pressure. PRESSURE RELIEF VALVE, ASME approved, steam-rated. OUTLET THERMOMETER has special swimming pool calibration. SAFETY-T-STRAINER, cleanable, stainless steel.

Request on other gas, oil or steam types.

No.	Model	Natural and Mfd Gas BTU Input	BTU Output
3003	AFJ-3	103,000	82,400
3064	AFJ-64	2,800,000	2,240,000

6



**CHLORINATOR
• gaseous type**



Chlorination is the most satisfactory means for preventing bacterial contamination of swimming pool water. Bulletin on request.

Hypochlorinators are best used for private pools and some commercial pools where gas is not suitable. Bulletin on request.

No.	
2120	10-100 lb. capacity Wall Model A677
2124	10-100 lb. capacity Floor Model
2140	Hypochlorinator S1 Single Head
2144	Hypochlorinator S2 Double Head

7



**MAKE UP
TANK**



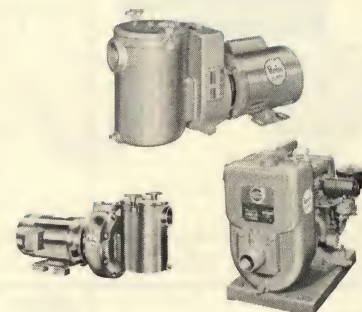
Make up on balance tanks available in any size or capacity. Used to break any direct connections between the potable water lines and the filter system. When also used as a balance tank proper valving must be utilized. Made of ¼ in. steel plate with dished bottom overflow outlet. Red lead finish. Specifications on request.

3 x 5 ft. tank
5 x 6 ft. tank

8



**PUMPS and
MOTORS**



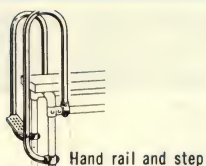
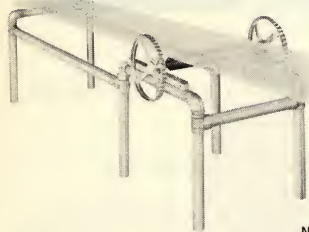
Adolph Kiefer & Co. pumps are expressly designed for swimming pool use. The self-priming types have a large integral hair and lint strainer basket of heavy perforated brass.

Heavy duty regular commercial centrifugal pumps, 1700 to 1750 Series, are available to 50 hp. 1750 Series self-priming pumps are available to 15 hp. Bulletins available: specify discharge rates and heads when requesting information.



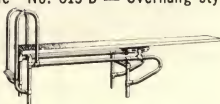
ADOLPH KIEFER 9 DECK EQUIPMENT

OFFICIAL DIVING STANDS ONE METER TYPE

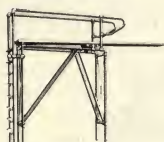


No. 811-1A — With New Instant Adjustable Fulcrum

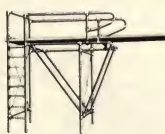
No. 813-S — With Single Fulcrum No. 817-D — YMCA style No. 815-D — Overhang style



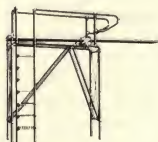
THREE METER TYPE



No. 824-D —
Double Fulcrum,
ladder at side

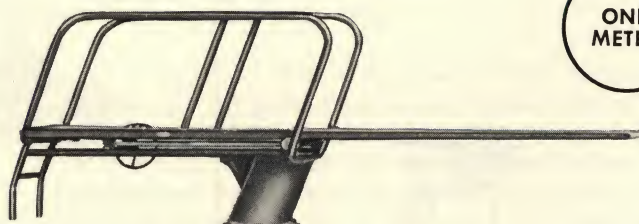


No. 825-S —
Overhand model,
Single Fulcrum,
ladder at side



No. 822-1a —
Adjustable Fulcrum,
ladder at side

EXCEPTIONAL DIVING STANDS



ONE
METER



THREE
METER

No. 850 "Exceptional" Three Meter Stand
No. 851 "Exceptional" One Meter Stand

DIVING BOARDS

All Adolph Kiefer & Co. diving boards of 14 and 16 ft. lengths meet AAU and NCAA requirements and are classified as "Official" types. Recommended for residential and deck level installations are those boards 8, 10 and 12 ft. long. Sanitary integral grit walk surface eliminates the need for cocoa matting on Kiefer diving boards.

CUSTOM



Oregon Douglas Fir, carefully selected, laminated and bonded to form a rugged, top performing board.

No. 800-8 8 ft. x 18 in.
No. 800-10 10 ft. x 18 in.
No. 800-12 12 ft. x 18 in.
No. 800-14 14 ft. x 20 in.
No. 800-16 16 ft. x 20 in.

CHAMPIONSHIP



The peer of high-performance diving boards. Has 26 separate laminations of selected Oregon Douglas Fir bonded with the wood, grains matched to assure the best. Finished in weather and chemical resistant plastic varnish. Straight taper.

No. 801-14 14 ft. x 20 in.
No. 801-16 16 ft. x 20 in.

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POOL FITTINGS

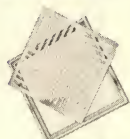


Main
Drains

Frame and Grate Chrome Plated Brass

K702 8 in. Round
K704 10 in. Round

MAIN DRAINS



Frame and Grate
Chrome Plated
Brass

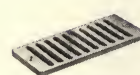
K708 9 in. x 9 in. Square
K712 13 1/4 in. x 13 1/4 in. Square
K716 19 1/2 in. x 19 1/2 in. Square

SCUM GUTTER DRAIN



K740 2 3/8 x 3 3/4 in.
with depth of
2-11/16 in.
Available 1 1/2 in.
to 2 1/2 in. IPS

GUTTER FRAME AND GRATE



Brass Casting
with
2 1/4 x 4 in.
Chrome
Plated
Brass Grill.

K740 1 1/2 in. IPS Female
K746 2 in. IPS Male
K752 2 in. IPS Female

INLET FITTINGS



Brass Casting
Chrome Plated
Female Thread
K820 1 in. IPS
K822 1 1/2 in. IPS
K824 2 in. IPS

K836 1 in. IPS Adjustable
K838 1 1/2 in. IPS Adjustable
K840 2 in. IPS Adjustable

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VACUUM FITTINGS



Brass Casting
Chrome Plated

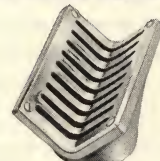
K806 1 1/2 in. x 1 1/2 in. IPS Female
K808 1 1/2 in. x 2 in. IPS Male
K810 2 in. x 2 in. IPS Female

WALL ANCHORS



No. 480—Heavy bronze recessed wall anchor with removable eye 3/8 in. diameter. Also available with chrome plate finish. 4 in. overall diameter, 4 1/2 in. deep. No. 481—Heavy bronze recessed wall anchor. Square type with permanent tie bar. Also available with chrome plate finish 3-1/16 in. square, 3/8 in. deep.

ANGLE GUTTER DRAIN



Angle Type Brass Casting with
Chrome Plated Brass Grill
K760 2 in. IPS Female
K762 2 1/2 in. IPS Female

DECK LEVEL/RESIDENTIAL STANDS

Available in galvanized iron, brass chrome plate and stainless steel.



No. 830 Has adjustable single or double fulcrum. Pipe frame 1½ in. O.D. Socket anchors or foot flanges furnished.



No. 831 With rubber covered fulcrum. Pipe frame 1½ in. O.D. Socket anchors or foot flanges furnished.



No. 832 With rubber covered fulcrum. Pipe frame 1½ in. O.D., uprights are sturdy castings. Easily mounted on concrete decks with expansion anchors (furnished).



No. 833 With rubber covered fulcrum. Pipe frame 1½ in. O.D., 24 in. high legs placed in concrete deck at time of pouring.

No. 834 Formed piping 1½ in. O.D., 24 in. legs placed in concrete deck at time of pouring.

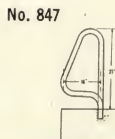
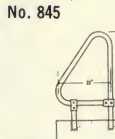
POOL LADDERS



No. 840

- Stainless Steel
- Chrome Plated Brass
- Galvanized Iron 1½ in. O. D. pipe

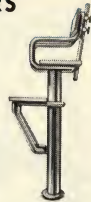
Nos. 840 and 842 have cross braces for extra rigidity; split clamp fittings with throughbolt connections. Steps, extra wide, with non-skid surface. Bottom terminals furnished with rubber bumpers. Nos. 840, 841 and 842 mounted in socket anchors, easily removable. Decorative escutcheon plates can be furnished for anchor tops. Stainless steel ladders have luxurious satin finish.



LIFE GUARD CHAIRS



No. 853 Wood seat and legs rest finished in white enamel. Socket type anchors. Hooks for ring buoys furnished. Available in galvanized iron, stainless steel and chrome plated brass.



No. 852A New Olympic Type, satin finish aluminum pipe frame with heavy gauge satin finish aluminum column. Wood seat and step finished in white marine enamel. Complete with hooks for buoys and mount for umbrella.

LIFE LINES AND RACING LANES



No. 461 Life line—50 ft. long, ¾ in. red and white polyethylene rope.

No. 452 life line

Floats, spaced at 5 foot intervals. Ends in No. 474 bronze "Bulldog" terminals. Official type racing lanes have floats placed "end to end" as prescribed for AAU and NCAA competition.

FIBERGLASS FACE



Laminated select Oregon Douglas Fir covered with layers of Fiberglass on the top surface giving added strength with the desirable performance of a wood board. Sea Green color. Permanent grit walk surface. Straight taper.

No. 802-10 10 ft. x 18 in.
No. 802-12 12 ft. x 18 in.
No. 802-14 14 ft. x 20 in.
No. 820-16 16 ft. x 20 in.

FIBERGLASS



Ideal board for municipal and institutional use. Three layers of Fiberglass over a core of top grade laminated Oregon Douglas Fir. Turquoise color. Straight taper.

No. 803-12 12 ft. x 18 in.
No. 803-14 14 ft. x 20 in.
No. 803-16 16 ft. x 20 in.

ALUMINUM



High strength and flexibility, combined with light weight. Top of the board is a solid surface covered with durable non-slip brick-red enamel. Bright aluminum anodized color.

No. 804-14 14 ft. x 20 in.
No. 804-16 16 ft. x 20 in.

SOCKET ANCHORS

standard



Furnished with bronze wedgedog, washer and cap screw. Positive locking of pipe frames and ladders. Polished or chrome plated bronze, galvanized iron or All-Mag aluminum.

No. 850-15 for 1½ in. I.D. pipe No. 850-16 for 2 in. I.D. pipe

special

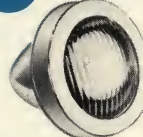


Designed for rear legs of diving stands where leverage pressure is greatest. Through-bolt joins anchor to rear frame uprights for complete rigidity. Polished or chrome plated bronze, galvanized iron or All-Mag aluminum.

No. 850-17 for 1½ in. I.D. pipe No. 850-18 for 2 in. I.D. pipe

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POOL LAMPS



Deluxe No. K510 Wet Niche



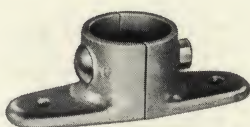
No. K580 Deck Box



No. K568 Deck Box

Flush mounted lamps complete with bronze mounting ring for anchoring light into poolwall. The lamp units are heavy spun copper with a chrome plated bronze face ring attached to the light body for a water tight seal. Lamps are equipped with ten feet of three wire, Neoprene covered, heavy-duty cord. Underwriters' Laboratories, Inc. listed.

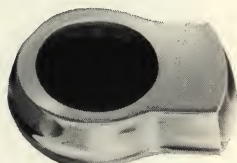
FOOT FLANGES



Used with expansion anchors to secure stand and anchors where concrete deck is already in place. Can also be used with bolts for mounting on wood platforms.

No. 850-19 for 1½ in. I.D. pipe, with expansion anchors
No. 850-20 for 2 in. I.D. pipe, with expansion anchors.

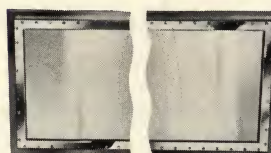
ESCUTCHEON PLATES



Covers anchor tops for "dressy" appearance. Available in polished or chrome plated brass or bronze.

No. 850-21 for 1½ in. I.D. pipe
No. 850-22 for 2 in. I.D. pipe

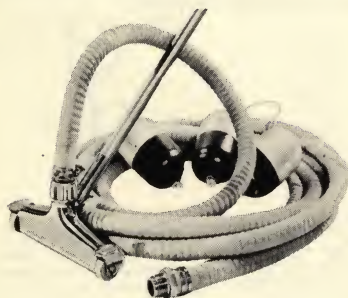
UNDERWATER OBSERVATION WINDOWS



Brass frame castings with polished face flange of bright nickel-silver. Glass is ¾ in. thick Herculite polished plate with ground edges. Gum rubber gaskets, galvanized Z-bar anchoring with bolts. Knife-grade caulking furnished with each unit.

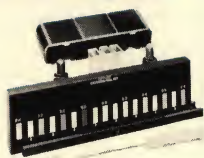
Cat. No.	Glass Size — in.	Flange Size — in.	Wall Opening Size — in.
984	13½ x 21	28½ x 21	25 x 17½
985	20 x 20	27½ x 27½	24 x 24
986	24 x 60	31½ x 67½	28¾ x 64¾

MAINTENANCE/POOL CLEANING EQUIPMENT



Well designed and efficient maintenance and pool cleaning equipment is necessary for the appearance and sanitation of the swimming pool. Adolph Kiefer and Company manufactures seven different models of pool cleaners with head sizes ranging from 7 to 24 in., designed especially for the small private pool and the largest of commercial type installations. Also available is a complete line of pool skimmers, leaf rakes, floor and wall brushes, and other allied items to take care of any maintenance responsibility.

WATER TESTING OUTFITS



No. 992

To determine the proper chlorine residual and to control irritating acidity a water test set is necessary for every swimming pool, large or small. Test set readings allow economical application of chemicals to maintain a proper balance—prevents overdosing.

Economy Test Set—For simple testing—contains a 2-oz. bottle of phenol red, 7.2 and 7.6 color standards (pH) and test tube, a 2-oz. bottle of orthotolidine, 0.3 and 0.8 color standards (chlorine) and test tube. No. 990

Midget Tester—Unbreakable polyethylene carrying case. Range for chlorine from 0.1 to 0.8 and for pH from 6.8 to 8.0. Complete with tubes and reagents. No. 991

Model "K"—"Professional" type test set—for the most accurate reading gradations. Four chlorine standards, five phenol red standards. Chlorine range 0.0 to 0.8, pH range 6.8 to 8.4. Complete with tubes, reagents and wood case. No. 992

LOCKER ROOM EQUIPMENT



Efficient, economical clothing storage for swimming pools. Durable built to give years of trouble-free service. Racks can be mounted on casters for maneuverability. Finish: baked on green enamel or gray finish. Special racks can be made up for specific conditions.

No. 633 Basket rack with baskets 40 1/4 in. wide, 13 1/4 in. deep, 68 1/4 in. high; 21 No. 626 baskets.

No. 634 Basket rack with baskets 40 1/4 in. wide, 13 1/4 in. deep, 68 1/4 in. high; 28 No. 625 baskets.

Heavy Duty Checking Basket designed specifically for locker room use. Durable built to provide years of service.

No. 625 Bright zinc plated, 1 in. square mesh wire, 9 in. wide, 13 in. deep, 8 in. high.

No. 626 Bright zinc plated, 1 in. square mesh wire, 12 in. wide, 13 in. deep, 8 in. high.

No. 627 Zinc chromate plated, mesh of No. 12 wire with top rim of No. 6 wire. 10 in. wide, 18 in. deep 7 1/2 in. high.

OTHER EQUIPMENT/PRODUCTS

- | | |
|--|---|
| <input type="checkbox"/> portable pumps & motors | <input type="checkbox"/> water conditioning chemicals |
| <input type="checkbox"/> underwater diving equipment | <input type="checkbox"/> pool paints |
| <input type="checkbox"/> lockers and benches | <input type="checkbox"/> water safety equipment |

ADOLPH KIEFER EQUIPMENT

SPECIFICATIONS

The following typical specifications are intended to be used as a guide when directly specifying Adolph Kiefer Swimming Pool Equipment. For planning assistance or architectural service (including furnishing of complete and detailed specifications on the entire line of equipment) contact our Engineering Dept. These services are available for the asking. All Swimming Pool Equipment shown on plans or covered by the specifications shall be as manufactured or furnished by Adolph Kiefer & Company, Glenview, Illinois, or architect-approval equal, and shall be installed in accordance with the manufacturer's instructions.

water conditioning equipment

FILTERS. All filters shall be completely assembled and tested in the factory. Filter shall comply with the requirements of the State Health Department and the local Board of Health (including inspection after installation), and shall be (choose one) . . . (a pressure sand and gravel type) or (a diatomaceous earth type).

The filter surface area shall allow a rate of water flow of.....GPM per sq. ft. of filter area, and shall have a minimum working pressure rating of.....PSI. The filter shall be Cat. No., Size.....

CHLORINATORS. Shall be furnished in cabinets for (floor) or (wall) mounting, and shall provide satisfactory means for preventing bacterial contamination. Chlorinator shall be (vacuum type gas) or (solution-hypochlorinator feeder type), Cat. No.....

CHEMICAL FEEDERS. Shall be equipped with brass pipe manifold for making connection to filter recirculating system. (Gravity) or (Pressure Pot) type, Cat. No.

POOL HEATER. Laars MVMJ gas pool heater shall be Cat. No., rated.....BTU Input,.....BTU Output, for use with.....BTU natural or manufactured gas.

PUMPS AND MOTORS. Pumps shall be (self-priming) or (centrifugal) type, rated.....ft. of water, GPM; pump motor shall be rated.....HP,.....Volts,.....Cycles,.....Phase; Cat. No.....

deck equipment

DIVING STANDS/BOARDS. Stands shall be (one) or (three) meter type, and shall be (.....in. OD pipe) or ("Exceptional") type; shall be (galvanized iron) or (chrome plated brass) or (stainless steel); Cat. No..... Fulcrum shall be (single) or (double) or (adjustable) type, and shall be provided with super-cushion rubber contact bars; Cat. No..... Diving board shall be.....ft. long, Cat. No.

POOL LADDERS. Shall be (galvanized iron) or (Chrome plated brass) or (stainless steel); treads, (number)provided, shall be extra wide with non-skid surface; Cat. No.....

LIFE GUARD CHAIRS. (Standard) or ("Exceptional") type shall be furnished in (galvanized iron) or (stainless steel) or (chrome plated brass . . . rails only in "Exceptional"); Cat. No.

POOL FITTINGS......shall be.....material, size....., Cat. No.....

miscellaneous equipment

MAINTENANCE/CLEANING. Provision shall be made for maintenance and cleaning equipment. (Pool vacuum cleaner) or (skimmer) or (wall and floor brush) shall be Cat. No.

WATER TESTING OUTFITS. Shall be furnished to determine proper chlorine residual or to control acidity. Shall be Cat. No.....



ADOLPH KIEFER AND COMPANY
2055 Railroad Avenue • Glenview, Illinois

phones
Chicago - CORNELIA 7-6362
Glenview - PARK 4-3420
Cable - KIEFERCO

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Carol J. Dyson, AIA